Patent
Attorney's Docket No. 032722-421 #6

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of	)	
	)	
Richard A. NAZARIAN et al.	)	Group Art Unit: 3737
	)	
Application No.: 09/030,989	)	Examiner: Unassigned
	)	
Filed: February 26, 1998	)	
	)	
For: MEDICAL PERFUSION SYSTEM	)	

COMMUNICATION

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed please find a copy of a Revocation and New Power of Attorney by Assignee of Entire interest for the above-captioned application, as highlighted in Exhibit A. Applicant respectfully requests acceptance and acknowledgment of the same.

Please note that only the relevant page of the original Exhibit A (11 pages) is attached. If an entire copy is required or should any questions arise in connection with this Revocation or the application in general, the U.S. Patent and Trademark Office is kindly invited to call the undersigned counsel for applicant regarding the same.

Respectfully submitted,

BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: 10/6/99

By: Wendi L. Weinstein
Wendi L. Weinstein
Registration No. 34,456

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Exhibit A

COUNTRY	APPLICATION OR SERIAL NO.	PATENT OR PUBLICATION NO.	TITLE	FIRST INVENTOR
US	08/822,523	5,747,138	Multilayer Hollow Fiber Body And Method Of Making	Ronald J. Leonard
US	09/070,711	5,888,611	Multilayer Hollow Fiber Body And Method Of Making	Ronald J. Leonard
US	09/053,167		Blood Oxygenator And Heat Exchanger	Ronald J. Leonard
US	08/565,438	5,762,868	Blood Oxygenator And Heat Exchanger	Ronald J. Leonard
US	08/707,656	5,644,093	Sensor Mounting Pad and Method	David W. Wright
US	09/118,013		Blood Treatment Cartridge	Erin J. Lindsay
US	08/659,808	5,871,693	Modular Blood Treatment Cartridge	Erin J. Lindsay
US	08/724,520	5,752,931	Perfusion System With Perfusion Circuit Display	Richard A. Nazarian
US	08/714,354		Blood Aspirator	William Bedingham
US	09/030,989		Medical Perfusion System	Richard A. Nazarian
US	08/723,504	5,813,972	Medical Perfusion System With Data Communications Network	Richard A. Nazarian
US	08/722,980		Perfusion System With Control Network	Richard A. Nazarian
US	08/962,360		Mounting Apparatus For Blood Handling Systems	Erin J. Lindsay
US	08/966,399		Reservoir Mounting Bracket	Erin J. Lindsay
US	09/123,696		Potting Of Tubular Bundles In Housing	Ronald J. Leonard

Exhibit B

ASSIGNMENT OF PATENTS AND PATENT APPLICATIONS

COPY

THIS ASSIGNMENT is effective as of this 30th day of June, 1999.

WHEREAS, MINNESOTA MINING & MANUFACTURING COMPANY ("ASSIGNOR"), a corporation organized and existing by virtue of the laws of DELAWARE and having its principal place of business at 3M CENTER, ST. PAUL, MINNESOTA, is an owner of record of the patents (including utility model registrations and design patents) and patent applications (including utility model applications and design patent applications) listed in Appendices A, B, and C attached hereto; and

WHEREAS, TERUMO CARDIOVASCULAR SYSTEMS CORPORATION ("ASSIGNEE"), a corporation organized and existing under the laws of DELAWARE and having its principal place of business at 2101 COTTONTAIL LANE, SOMERSET, NEW JERSEY, has purchased for consideration all of ASSIGNOR's right, title, and interest in and to all the said patents and patent applications listed on attached Appendices A,B, and C, and all of ASSIGNOR's right, title, and interest in and to all future patents (including utility model registrations and design patents) and patent applications (including utility model applications and design patent applications) corresponding to said patents and patent applications, and any reissue patents, reexamined patents, renewals, extensions, divisions, continuations, and continuations-in-part of said patents and patent applications, except for U.S. Patent Nos. 4,886,338, 4,919,891, 4,786,474 and 5,104,623 and any reexamined patents, reissue patents, renewals or extensions of U.S. Patent Nos. 4,886,338 and 4,919,891.

WHEREAS, ASSIGNOR and ASSIGNEE desire to record this instrument in the United States Patent and Trademark Office and in patent offices in countries foreign to the United States attesting to the assignment of said patents and patent applications listed on attached Appendices A, B, and C;

NOW, THEREFORE, ASSIGNOR hereby assigns and transfers to ASSIGNEE its entire right, title, and interest in and to the said patents and patent applications listed on attached Appendices A, B, and C, and all of ASSIGNOR's right, title, and interest in and to all future patents (including utility model registrations and design patents) and patent applications (including utility model applications and design patent applications) corresponding to said patents and patent applications, and any reissue patents, reexamined patent, renewals, extensions, divisions, continuation, and continuations-in-part of said patents and patent applications, except for U.S. Patent Nos. 4,886,338, 4,919,891, 4,786,474 and 5,104,623 and any reexamined patents, reissue patents, renewals or extensions of U.S. Patent Nos. 4,886,338 and 4,919,891. Said patents and patent applications to be held and enjoyed by ASSIGNEE for its own use and for the use of its legal representatives, successors, and assigns, to the full end of the term for which the said patents listed on Appendices A, B, and C were and may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment not been made.

MINNESOTA MINING & MANUFACTURING COMPANY

By: Karen E Welke

Name: KAREN WELKE

Title: VICE PRESIDENT, MEDICAL MARKETS GROUP

Date: 6/30/99

Post Office Address:
3M Center
St. Paul, Minnesota 55144-1000

APPENDIX A

Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
US	06/279,174	4,433,971	Integrated Cardioplegia Delivery System	Erin J. Lindsay	32480USA1A
US	06/548,298	4,512,163	Integrated Cardioplegia Delivery System	Edward S. Wells	32481USA6B
US	06/279,175	4,427,009	Integrated Cardioplegia Delivery System	Edward S. Wells	32481USA8A
US	06/329,604	4,416,280	Cardioplegia Delivery System	Walter L. Carpenter	32492USA3B
CA	454227	1225895	Cardioplegia Delivery System With Improved Bubble Trap	Dennis M. Kujawski	33233CAN3A
US	06/500,525	4,568,330	Cardioplegia Delivery System With Improved Bubble Trap	Dennis M. Kujawski	33233USA2A
US	06/584,316	4,605,006	Hypothermic Protection Pad	Roberta Collins Harper	33341USA3A
CA	3237200	1144835	Cardiotomy Reservoir	Thomas W. Crockett	41156CAN7A
CA	343137	1128827	Bubble Oxygenator	George G. Siposs	41162CAN4A
US	06/122,779	4,336,224	Bubble Oxygenator	George G. Siposs	41162USA1B
US	06/628,756	4,589,822	Centrifugal Blood Pump With Impeller	Earl W. Clausen	42156USA5A
CA	486378	1249748	Centrifugal Blood Pump With Tapered Shaft Seal	Earl W. Clausen	42157CAN4A
FR	85.903734.3	188567	Centrifugal Blood Pump With Tapered Shaft Seal	Earl W. Clausen	42157FRA1A
DE	85.903734.3	188567	Centrifugal Blood Pump With Tapered Shaft Seal	Earl W. Clausen	42157GEW3A
IT	85.903734.3	188567	Centrifugal Blood Pump With Tapered Shaft Seal	Earl W. Clausen	42157ITA3A
US	06/628,727	4,606,698	Centrifugal Blood Pump With Tapered Shaft Seal	Earl W. Clausen	42157USA3A
US	06/936,975	4,778,445	Centrifugal Blood Pump With Backflow Detection	Lloyd C. Hubbard	42158USA9B

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
US	06/863,128	4,690,002	Doppler System For Measurement Of Blood Flow During Cardiopulmonary Bypass And Ventricular Assist	Lloyd C. Hubbard	42160USA6A
US	07/150,340	4,863,441	Venous Return Catheter	Erin J. Lindsay	42295USA9B
US	07/074,549	4,781,525	Flow Measurement System	Lloyd C. Hubbard	42568USA2A
US	07/300,265	4,936,759	Blood Reservoir/Pump	Earl W. Clausen	42980USA8A
DE	89.305146.6	351043	Combination Fluid Path And Mount For Heat Exchanger	Ronald J. Leonard	43263GEW7A
IT	89.305146.6	351043	Combination Fluid Path And Mount For Heat Exchanger	Ronald J. Leonard	43263ITA7A
JP	132926/89	2774816	Combination Fluid Path And Mount For Heat Exchanger	Ronald J. Leonard	43263JAP9A
US	07/219,325	4,846,177	Combination Fluid Path And Mount For Heat Exchanger	Ronald J. Leonard	43263USA7A
DE	89.309264.3	359531	Cardioplegia Administration Set	Ronald J. Leonard	43461GEW7A
IT	89.309264.3	359531	Cardioplegia Administration Set	Ronald J. Leonard	43461ITA7A
JP	234848/89		Cardioplegia Administration Set	Ronald J. Leonard	43461JAP9A
US	07/243,896	4,883,455	Cardioplegia Administration Set	Ronald J. Leonard	43461USA7A
DE	93.116012.1	591896	Membrane Blood Oxygenator	Ronald J. Leonard	43620GEW7B
DE	89.312884.3	373847	Membrane Blood Oxygenator	Ronald J. Leonard	43620GEW9A
IT	89.312884.3	373847	Membrane Blood Oxygenator	Ronald J. Leonard	43620ITA9A
JP	310490/89	2912646	Membrane Blood Oxygenator	Ronald J. Leonard	43620JAP1A
JP	249394/93		Membrane Blood Oxygenator	Ronald J. Leonard	43620JAP9B
US	07/957,415	5,382,407	Membrane Blood Oxygenator	Ronald J. Leonard	43620USA5C
US	07/657,338	5,152,964	Membrane Blood Oxygenator	Ronald J. Leonard	43620USA7B
US	07/239,526	4,898,518	Shaft Driven Disposable Centrifugal Pump	Lloyd C. Hubbard	43716USA6A
FR	90.311634.1	425257	Centrifugal Blood Pump	Earl W. Clausen	43833FRA5A
DE	90.311634.1	425257	Centrifugal Blood Pump	Earl W. Clausen	43833GEW8A

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IT	90.311634.1	425257	Centrifugal Blood Pump	Earl W. Clausen	43833ITA8A
JP	286937/90		Centrifugal Blood Pump	Earl W. Clausen	43833JAP1A
US	07/426,102	4,984,972	Centrifugal Blood Pump	Earl W. Clausen	43833USA8A
US	07/435,558	5,059,375	Apparatus And Method For Producing Kink Resistant Tubing	Erin J. Lindsay	44327USA1A
US	07/728,600	5,163,912	Catheter And Stylet Assembly Having Dual Position Stylet	Eric L. Gay	44332USA7B
US	07/393,212	5,047,018	Catheter And Stylet Assembly Having Dual Position Stylet	Eric L. Gay	44332USA9A
DE	G9101636.3	G9101636.3	Arterial Cannula Tip And Method Of Manufacture	William G. O'Neill	44884GEW1A
US	07/492,604	5,084,033	Arterial Cannula Tip And Method Of Manufacture	William G. O'Neill	44884USA1A
EP	95.115431.9	704227	In-Line Quick Connect Apparatus For Medical Fluid Circulating Systems	Erin J. Lindsay	44913EPO1C
DE	93.916522.1	646023	Quick-Changeover Blood Handling Apparatus	Erin J. Lindsay	44913GEW5B
DE	91.907039.1	521085	Quick Changeover Blood Handling Apparatus	Erin J. Lindsay	44913GEW7A
IT	93.916522.1	646023	Quick-Changeover Blood Handling Apparatus	Erin J. Lindsay	44913ITA5B
IT	91.907039.1	521085	Quick Changeover Blood Handling Apparatus	Erin J. Lindsay	44913ITA7A
JP	246186/95		In-Line Quick Connect Apparatus For Medical Fluid Circulating Systems	Erin J. Lindsay	44913JAP5C
JP	501776/94		Quick-Changeover Blood Handling Apparatus	Erin J. Lindsay	44913JAP7B

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JP	506588/91		Quick Changeover Blood Handling Apparatus	Erin J. Lindsay	44913JAP9A
US	07/856,574	5,304,164	Quick-Changeover Blood Handling Apparatus	Erin J. Lindsay	44913USA3C
US	07/686,495	5,254,080	Quick-Changeover Blood Handling Apparatus	Erin J. Lindsay	44913USA5B
US	07/493,286	5,149,318	Quick Changeover Blood Handling Apparatus	Erin J. Lindsay	44913USA7A
US	08/316,245	5,542,913	In-Line Quick Connect Apparatus For Medical Fluid Circulating Systems	Erin J. Lindsay	44913USA7F
US	08/077,344	5,399,156	Quick-Changeover Blood Handling Apparatus	Erin J. Lindsay	44913USA9E
DE	92.300944.3	498624	Blood Pumping System With BackFlow Warning	Greta L. Buck	46640GEW4A
JP	23844/92		Blood Pumping System With BackFlow Warning	Greta L. Buck	46640JAP6A
US	07/652,510	5,171,212	Blood Pumping System With BackFlow Warning	Greta L. Buck	46640USA4A
DE	92.924251.9	617627	Blood Reservoir	Erin J. Lindsay	47826GEW9A
IT	92.924251.9	617627	Blood Reservoir	Erin J. Lindsay	47826ITA9A
JP	510896/93		Blood Reservoir	Erin J. Lindsay	47826JAP1A
US	08/262,347	5,403,273	Blood Reservoir	Erin J. Lindsay	47826USA5C
US	07/709,268	5,282,783	Blood Reservoir	Erin J. Lindsay	47826USA9A
US	07/888,840	5,255,734	Combination Mount And Fluid Path For Heat Exchanger	Ronald J. Leonard	47849USA1A
DE	19616557.1		Blood Reservoir With Visible Inlet Tube	Erin J. Lindsay	48007GEW4A
IT	96A 000744	1283613	Blood Reservoir With Visible Inlet Tube	Erin J. Lindsay	48007ITA4A

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US	08/431,886	5,667,485	Blood Reservoir With Visible Inlet Tube	Erin J. Lindsay	48007USA4A
US	07/978,869	5,400,991	Modular Mounting Assembly	Jack E. Werner	48144USA4A
DE	94.100510.0	607883	Saw Blade Retention System	David W. Wright	48375GEW5A
JP	5049/94		Saw Blade Retention System	David W. Wright	48375JAP7A
GB	94.100510.0	607883	Saw Blade Retention System	David W. Wright	48375UNK5A
US	08/897,018		Saw Blade Retention System (reissue application)	David W. Wright	48375USA1C
US	08/006,814	5,340,129	Saw Blade Retention System	David W. Wright	48375USA5A
US	07/951,725	5,403,281	Inline Heat Exchanger And Cardioplegia System	William G. O'Neill	48376USA3A
EP	98.103595.9	853954	Retrograde Coronary Sinus Catheter	William G. O'Neill	48445EPO1C
EP	98.100991.3	841073	Retrograde Coronary Sinus Catheter	William G. O'Neill	48445EPO2B
EP	93.106754.0	567976	Retrograde Coronary Sinus Catheter	William G. O'Neill	48445EPO4A
JP	99329/93		Retrograde Coronary Sinus Catheter	William G. O'Neill	48445JAP8A
US	08/398,429	5,807,326	Retrograde Coronary Sinus Catheter	William G. O'Neill	48445USA1D
US	08/350,649	5,620,418	Retrograde Coronary Sinus Catheter	William G. O'Neill	48445USA2C
US	08/021,526	5,395,331	Retrograde Coronary Sinus Catheter Having A Ribbed Balloon	William G. O'Neill	48445USA4B
US	07/874,589	5,324,260	Retrograde Coronary Sinus Catheter	William G. O'Neill	48445USA6A
US	07/907,156	5,316,247	Wire-And-Tube-Retaining Pole Clip	Michael A. Wodka	48649USA4A
US	D-07/907,208	D-347,164	Pole Clip For Wires Or Tubing	Michael A. Wodka	48650USA1A

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
US	08/154,925	5,423,749	Cardioplegia Administration System And Method	Kenneth E. Merte	48919USA1A
US	08/383,940	5,464,388	Cardioplegia Administration System And Method	Kenneth E. Merte	48919USA9B
DE	G9320845.6	G9320845.6	Method Of, And Stylet Apparatus For, Installing A Retrograde Coronary Cannula	Christopher M. Boykin	48941GEW2B
DE	93.118590.4	598403	Method Of, And Stylet Apparatus For, Installing A Retrograde Coronary Cannula	Christopher M. Boykin	48941GEW4A
JP	62385/93		Method Of, And Stylet Apparatus For, Installing A Retrograde Coronary Cannula	Christopher M. Boykin	48941JAP6A
US	08/238,416	5,401,244	Method Of, And Stylet Apparatus For, Installing A Retrograde Coronary Cannula	Christopher M. Boykin	48941USA1C
US	08/088,257	5,360,406	Stylet For Retrograde Coronary Sinus Cannula	Christopher M. Boykin	48941USA2B
DE	19605864.3		Low Velocity Aortic Cannula	Erin J. Lindsay	48942GEW2A
JP	30652/96		Low Velocity Aortic Cannula	Erin J. Lindsay	48942JAP4A
US	08/392,075	5,616,137	Low Velocity Aortic Cannula	Erin J. Lindsay	48942USA2A
US	D-29/010,455	D-359,801	Stylet For Retrograde Coronary Sinus Cannula	Christopher M. Boykin	49918USA2A
DE	19602140.5		Antegrade/Retrograde Switch For Cardioplegia Cannulae	William G. O'Neill	49922GEW3A
JP	8691/96		Antegrade/Retrograde Switch For Cardioplegia Cannulae	William G. O'Neill	49922JAP5A
US	08/790,410	5,755,686	Antegrade/Retrograde Switch For Cardioplegia Cannulae	William G. O'Neill	49922USA1B

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
EP	94.931845.5	725657	Blood Oxygenation System And Reservoir And Method Of Manufacture	Ronald J. Leonard	50116EPO7A
JP	512672/95		Blood Oxygenation System And Reservoir And Method Of Manufacture	Ronald J. Leonard	50116JAP1A
US	08/725,015	5,753,173	Method Of Manufacturing A Blood Oxygenation System	Ronald J. Leonard	50116USA3D
US	08/429,359	5,580,522	Blood Oxygenation System And Reservoir And Method Of Manufacture	Ronald J. Leonard	50116USA5C
US	08/142,809	5,514,335	Blood Oxygenation System And Reservoir And Method Of Manufacture	Ronald J. Leonard	50116USA9A
US	08/422,152	5,564,420	Medical Device With EMI Detection And Cancellation	Richard A. Nazarian	50721USA6A
EP	96.940578.6	876 197	Multilayer Hollow Fiber Body And Method Of Making	Ronald J. Leonard	50997EPO1A
JP	520556/97		Multilayer Hollow Fiber Body And Method Of Making	Ronald J. Leonard	50997JAP5A
US	08/822,523	5,747,138	Multilayer Hollow Fiber Body And Method Of Making	Ronald J. Leonard	50997USA1B
US	09/070,711	5,888,611	Multilayer Hollow Fiber Body And Method Of Making	Ronald J. Leonard	50997USA9C
EP	96.941418.4	876 171	Blood Oxygenator And Heat Exchanger	Ronald J. Leonard	50999EPO7A
HK	99101447.9		Blood Oxygenator And Heat Exchanger	Ronald J. Leonard	50999HOK1A
JP	520553/97		Blood Oxygenator And Heat Exchanger	Ronald J. Leonard	50999JAP1A

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US	09/053,167		Blood Oxygenator And Heat Exchanger	Ronald J. Leonard	50999USA7B
US	08/565,438	5,762,868	Blood Oxygenator And Heat Exchanger	Ronald J. Leonard	50999USA9A
EP	96.105627.2	737 847	Sensor Mounting Pad And Method	David W. Wright	51628EPO1A
JP	78880/96		Sensor Mounting Pad And Method	David W. Wright	51628JAP5A
US	08/707,656	5,644,093	Sensor Mounting Pad And Method	David W. Wright	51628USA1B
EP	97.929812.2	909 188	Modular Blood Treatment Cartridge	Erin J. Lindsay	52184EPO2A
JP	50086/98		Modular Blood Treatment Cartridge	Erin J. Lindsay	52184JAP6A
US	09/118,031		Blood Treatment Cartridge	Erin J. Lindsay	52184USA2B
US	08/659,808	5,871,693	Modular Blood Treatment Cartridge	Erin J. Lindsay	52184USA4A
DE	19782052.2		Perfusion System With Perfusion Circuit Display	Richard A. Nazarian	52837GEW9A
JP	10-516515		Perfusion System With Perfusion Circuit Display	Richard A. Nazarian	52837JAP1A
US	08/724,520	5,752,931	Perfusion System With Perfusion Circuit Display	Richard A. Nazarian	52837USA9A
JP	10-513649		Blood Aspirator	William Bedingham	52838JAP9A
WO	US97/13825	WO98/10810	Blood Aspirator	William Bedingham	52838PCT5A
US	08/714,354		Blood Aspirator	William Bedingham	52838USA7A
DE	19782054.9		Medical Perfusion System	Richard A. Nazarian	52863GEW4A
JP	10-516518		Medical Perfusion System	Richard A. Nazarian	52863JAP6A
US	09/030,989		Medical Perfusion System	Richard A. Nazarian	52863USA2B

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
US	08/723,504	5,813,972	Medical Perfusion System With Data Communications Network	Richard A. Nazarian	52863USA4A
DE	19782053.0		Perfusion System With Control Network	Richard A. Nazarian	52866GEW8A
JP	10-516517		Perfusion System With Control Network	Richard A. Nazarian	52866JAP1A
US	08/722,980		Perfusion System With Control Network	Richard A. Nazarian	52866USA8A
WO	US98/04941	WO 99/22785	Mounting Apparatus For Blood Handling Systems	Erin J. Lindsay	53230PCT2A
US	08/962,360		Mounting Apparatus For Blood Handling Systems	Erin J. Lindsay	53230USA4A
WO	US98/05555	WO 99/24088	Reservoir Mounting Bracket	Erin J. Lindsay	53431PCT6A
US	08/966,399		Reservoir Mounting Bracket	Erin J. Lindsay	53431USA8A
WO			Volume Control Apparatus For A Flexible Venous Reservoir	Daniel W. Viitala	53591PCT8A
US	09/123,696		Potting Of Tubular Bundles In Housing	Ronald J. Leonard	53591USA1A
US	09/079,046		Volume Control Apparatus For A Flexible Venous Reservoir	Daniel W. Viitala	53916USA1A
US	09/239,440		Blood Pump	William Bedingham	54331USA9A
US	09/244,426		Self-Contained Pack Assembly For An Extracorporeal Blood Circuit	Erin J. Lindsay	54673USA5A
WO	US99/08700		Volume Control Apparatus For A Flexible Venous Reservoir	Daniel W. Viitala	53916PCT8A

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
US	07/979,181	5,368,554	Blood Pumping System With Selective Backflow Warning	Richard A. Nazarian	48596USA7A
CA	2115895		Low Velocity Aortic Cannula	Christopher M. Boykin	49198CAN1A
EP	95.115700.7		Low Velocity Aortic Cannula	Delos M. Cosgrove	49198EPO6B
EP	94.102804.5	612 536	Low Velocity Aortic Cannula	Christopher M. Boykin	49198EPO8A
EP	99 11 0619.6		Low Velocity Aortic Cannula	Christopher M. Boykin	49198EPO8A, Divisional of...
JP	243237/95		Low Velocity Aortic Cannula	Delos M. Cosgrove	49198JAP1B
JP	26887/94		Low Velocity Aortic Cannula	Christopher M. Boykin	49198JAP2A
US	08/021,811	5,354,288	Low Velocity Aortic Cannula	Delos M. Cosgrove	49198USA1A
US	08/319,374	5,643,226	Low Velocity Aortic Cannula	Delos M. Cosgrove	49198USA6C
US	08/318,207	5,685,865	Low Velocity Aortic Cannula	Delos M. Cosgrove	49198USA8B

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
CA	606396	1313986	Cardioplegia Administration Set	Ronald J. Leonard	43461CAN8A
IT	93.116012.1	591896	Membrane Blood Oxygenator	Ronald J. Leonard	43620ITA7B
WO	US97/09783	97/46272	Modular Blood Treatment Cartridge	Erin J. Lindsay	52184PCT2A
EP	93.116012.1	591896	Membrane Blood Oxygenator	Ronald J. Leonard	43620EPO5B
WO	US97/13623	98/14226	Perfusion System With Perfusion Circuit Display	Richard A. Nazarian	52837PCT7A
WO	US97/13824	98/14227	Perfusion System With Control Network	Richard A. Nazarian	52866PCT6A
WO	US97/13826	98/14228	Medical Perfusion System	Richard A. Nazarian	52863PCT2A
JP	33064/92		Wire Clip	Michael A. Wodka	48650JAP3A

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
JP	123942/93		Combination Mount And Fluid Path For Heat Exchanger	Ronald J. Leonard	47849JAP3A
CA	2173854		Blood Oxygenation System And Reservoir And Method Of Manufacture	Ronald J. Leonard	50116CAN1A
JP	284965/94		Cardioplegia Administration System And Method	Kenneth E. Merte	48919JAP3A
FR	93.106754.0	567976	Retrograde Coronary Sinus Catheter	William G. O'Neill	48445FRA3A
DE	93.106754.0	567976	Retrograde Coronary Sinus Catheter	William G. O'Neill	48445GEW6A
HK	Unknown	Unknown	Multilayer Hollow Fiber Body And Method Of Making	Ronald J. Leonard	50997HOK4A

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
US	06/425,420	4,557,900	Optical Sensor With Beads	Harold A. Heitzmann	44068USA1A
US	06/546,493	4,640,820	Flow-Through Housing With Blood Gas Sensors	Robert P. Cooper	44069USA8A
US	07/206,189	5,006,314	Sensor And Method For Sensing The Concentration Of A Component In A Medium	Ted H. Gourley	44070USA1C
US	07/624,200	5,120,510	Sensor And Method For Sensing The Concentration Of A Component In A Medium	Ted H. Gourley	44070USA7E
AT	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	44073AUT2C
BE	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	44073BEG8B
CA	557718	1338176	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073CAN1A
CA	606905	1332442	Intravascular Blood Gas Sensing System	John L. Gehrich	44073CAN6C
DK	3777/89	170570	Intravascular Blood Gas Sensing System	John L. Gehrich	44073DEN9B
EP	94.106593.0	613651	Intravascular Blood Gas Sensing System	John L. Gehrich	44073EPO7F
FR	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	44073FRA2C
FR	88.300622.3	276977	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073FRA6A
DE	92.118809.0	536808	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073GEW1E
DE	91.121782.6	479341	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073GEW3D
DE	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	44073GEW5C
DE	88.300622.3	276977	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073GEW9A
IT	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	44073ITA7B
JP	19465/88	2642651	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073JAP1A
JP	204542/89	2735302	Intravascular Blood Gas Sensing System	John L. Gehrich	44073JAP7C
JP	204541/89	2788067	Blood Parameter Measurement System	Thomas P. Maxwell	44073JAP9B
NL	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	44073NET3B
SE	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	44073SWE7B
GB	92.118809.0	536808	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073UNK1E
GB	91.121782.6	479341	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073UNK3D
GB	89.307951.7	354736	Intravascular Blood Gas Sensing System	John L. Gehrich	44073UNK5C
GB	88.300622.3	276977	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073UNK9A
US	07/328,056	4,934,369	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073USA1E
US	90/003,443	B1 4,928,694	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073USA3I
US	07/229,617	4,989,606	Intravascular Blood Gas Sensing System	John L. Gehrich	44073USA5C
US	08/055,800	5,462,052	Apparatus And Method For Use In Measuring A Compositional Parameter Of Blood	John L. Gehrich	44073USA5H
US	07/229,703	4,951,669	Blood Parameter Measurement System	Thomas P. Maxwell	44073USA7B
US	07/008,937	4,830,013	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073USA9A
US	07/539,602	5,048,525	Blood Parameter Measurement System With Compliant Element	Thomas P. Maxwell	44073USA9F
US	07/091,432	4,954,318	Optical Sensor	Masao Yafuso	44075USA5A
JP	16128/91		Method And System For Monitoring Of Blood Constituents In Vivo	Masao Yafuso	44080JAP6A
US	08/005,765	5,345,932	Method And System For Monitoring Of Blood Constituents In Vivo	Masao Yafuso	44080USA1C
US	07/820,565	5,195,963	Method And System For Monitoring Of Blood Constituents In Vivo	Masao Yafuso	44080USA2B
DE	G9104916.4	G9104916.4	Pump And Calibration System	Thomas P. Maxwell	44940GEW1A
JP	3-28899	2581548	Pump And Calibration System	Thomas P. Maxwell	44940JAP2A

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US	07/514,689	5,094,820	Pump And Calibration System	Thomas P. Maxwell	44940USA1A
DE	93.103925.9	560353	Calibration System And Housing	Roxanne E. Wall	44941GEW6B
DE	91.106450.9	454033	Sterile Loop Calibration System	Thomas P. Maxwell	44941GEW8A
JP	94363/91		Sterile Loop Calibration System	Thomas P. Maxwell	44941JAP1A
JP	50694/93		Calibration System And Housing	Roxanne E. Wall	44941JAP8B
US	08/169,154	5,420,038	Calibration System And Housing	Roxanne E. Wall	44941USA1E
US	08/067,422	5,348,706	Calibration System And Housing	Roxanne E. Abul-Haj	44941USA2D
US	07/849,753	5,278,072	Calibration System And Housing	Roxanne E. Wall	44941USA4C
US	07/747,533	5,171,029	Seal Construction For Pump Apparatus	Thomas P. Maxwell	44941USA6B
US	07/514,704	5,057,278	Sterile Loop Calibration System	Thomas P. Maxwell	44941USA8A
US	D-07/456,261	D-326,718	A Blood Sensor Cassette	Thomas P. Maxwell	45052USA2A
DE	G9103971.6	G9103974.6	Apparatus And Assembly For Use In Optically Sensing A Compositional Blood Parameter	William J. Miller	45287GEW5A
JP	3-20516	2590382	Apparatus And Assembly For Use In Optically Sensing A Compositional Blood Parameter	William J. Miller	45287JAP7A
DE	91.105835.2	453901	System And Method For Predicting The Value Of A Compositional Parameter Of Blood	James K. Tusa	45432GEW6A
JP	95294/91		System And Method For Predicting The Value Of A Compositional Parameter Of Blood	James K. Tusa	45432JAP8A
US	07/514,703	5,134,998	System And Method For Predicting The Value Of A Compositional Parameter Of Blood	James K. Tusa	45432USA6A
CA	2100063		Apparatus And Method For Measuring A Blood Parameter	Stan O. Heinemann	46843CAN5A
FR	92.904440.2	570451	Apparatus And Method For Measuring A Blood Parameter	Stan O. Heinemann	46843FRA1A
DE	92.904440.2	570451	Apparatus And Method For Measuring A Blood Parameter	Stan O. Heinemann	46843GEW4A
JP	504410/92		Apparatus And Method For Measuring A Blood Parameter	Stan O. Heinemann	46843JAP6A
GB	92.904440.2	570451	Apparatus And Method For Measuring A Blood Parameter	Stan O. Heinemann	46843UNK4A
US	07/652,121	5,291,884	Apparatus And Method For Measuring A Blood Parameter	Stan O. Heinemann	46843USA4A
CA	2062607		Cuvette For Use In Making A Measurement Of A Blood Parameter And Assembly Utilizing The Same	Paul J. Mullin	46940CAN9A
DE	92.105291.6	510377	Cuvette For Use In Making A Measurement Of A Blood Parameter And Assembly Utilizing The Same	Paul J. Mullin	46940GEW8A
JP	4-14669	2550496	Cuvette For Use In Making A Measurement Of A Blood Parameter And Assembly Utilizing The Same	Paul J. Mullin	46940JAP1A
GB	92.105291.6	510377	Cuvette For Use In Making A Measurement Of A Blood Parameter And Assembly Utilizing The Same	Paul J. Mullin	46940UNK8A
US	07/676,956	5,289,255	Cuvette For Use In Making A Measurement Of A Blood Parameter And Assembly Utilizing The Same	Paul J. Mullin	46940USA8A
US	07/757,455	5,131,625	One-Time Use Disposable Bottle Valve	Thomas G. Hacker	47493USA6A
US	07/885,713	5,333,609	Catheter And Probe-Catheter Assembly	William Bedingham	47738USA6A
EP	96.105226.3	732571	Fiber Optic Temperature Sensor For Medical Application	Shunsuke Takaki	48370EPO1B
DE	94.901307.2	670994	Fiber Optic Temperature Sensor For Medical Application	Shunsuke Takaki	48370GEW5A
JP	314852/92		Fiber Optic Temperature Sensor For Medical Application	Shunsuke Takaki	48370JAP7A
US	09/002,587		Method Of Making A Temperature Sensor For Medical Application	Shunsuke Takaki	48370USA3B

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
US	08/436,435	5,779,365	Temperature Sensor For Medical Application	Shunsuke Takaki	48370USA5A
DE	93.918132.9	647118	Invasive Fiber Optic Blood Pressure Transducer	Shunsuke Takaki	48372GEW1A
JP	130516/93		Invasive Fiber Optic Blood Pressure Transducer	Shunsuke Takaki	48372JAP1B
WO	US93/06105	94/00051	Invasive Fiber Optic Blood Pressure Transducer	Shunsuke Takaki	48372PCT9A
US	08/351,323	5,711,291	Blood Pressure Transducer	Shunsuke Takaki	48372USA1A
US	09/012,915		Blood Pressure Transducer	Shunsuke Takaki	48372USA9B
CA	2099300		Intravascular Blood Parameter Sensing System	William Bedingham	48779CAN1A
FR	93.110258.6	577038	Intravascular Blood Parameter Sensing System	William Bedingham	48779FRA6A
DE	93.110258.6	577038	Intravascular Blood Parameter Sensing System	William Bedingham	48779GEW9A
IT	93.110258.6	577038	Intravascular Blood Parameter Sensing System	William Bedingham	48779ITA9A
JP	153397/93		Intravascular Blood Parameter Sensing System	William Bedingham	48779JAP1A
GB	93.110258.6	577038	Intravascular Blood Parameter Sensing System	William Bedingham	48779UNK9A
US	08/247,025	5,421,328	Intravascular Blood Parameter Sensing System	William Bedingham	48779USA7B
US	07/906,740	5,335,658	Intravascular Blood Parameter Sensing System	William Bedingham	48779USA9A
EP	95.909302.2		Method And Apparatus For Noninvasive Prediction Of Hematocrit	Hatim M. Carim	50445EPO1A
JP	520117/95		Method And Apparatus For Noninvasive Prediction Of Hematocrit	Hatim M. Carim	50445JAP4A
US	08/711,612	5,755,226	Method And Apparatus For Noninvasive Prediction Of Hematocrit	Hatim M. Carim	50445USA1B
US	08/189,600	5,553,615	Method And Apparatus For Noninvasive Prediction Of Hematocrit	Hatim M. Carim	50445USA2A
US	08/439,522	5,583,213	Process to Activate Sulfated Polysaccharides	Masao Yafuso	50673USA9A
WO	US97/11111	98/37801	Cassette For Measuring Parameters Of Blood	Thomas G. Hacker	53212PCT1A
US	D-29/084,339		Shunt Sensor For Blood Gas Measurement	Thomas G. Hacker	53212USA1B
US	09/031,415		Cassette For Measuring Parameters Of Blood	Thomas G. Hacker	53212USA1G
US	D-29/084,336	Des. 408,918	Calibration Cuvette Assembly For Blood Gas Measurement	Thomas G. Hacker	53212USA2F
US	D-29/084,200	Des. 408,917	Membrane Support Structure Of A Flow Through Cell For Blood Gas Measurement	Thomas G. Hacker	53212USA4E
US	D-29/084,338		Flow Through Cell For Blood Gas Measurement	Thomas G. Hacker	53212USA6D
US	D-29/084,335		Sensor Cassette For Blood Gas Measurement	Thomas G. Hacker	53212USA8C
WO	US97/11043	98/37800	Cassette For Tonometric Calibration	Thomas G. Hacker	53213PCT8A
US	08/806,368		Cassette For Tonometric Calibration	Thomas G. Hacker	53213USA1A
WO	US97/11028	98/38541	Assembly For Retaining Optical Components	N. Alan Abul-Haj	53215PCT4A
US	08/806,359	5,822,137	Assembly For Retaining Optical Components	Nagel A. Abul-Haj	53215USA6A
WO	US97/20055		Process for Modifying Surfaces Using the Reaction Product of a Water-Insoluble Polymer and a Polyalkylene Imine	David F. Wirt	53261PCT7A
US	08/886,720		Process for Modifying Surfaces Using the Reaction Product of a Water-Insoluble Polymer and a Polyalkylene Imine	David F. Wirt	53261USA9A

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
DK	90.310217.6	419222	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446DEN1A
FR	90.310217.6	419222	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446FRA5A
DE	90.310217.6	419222	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446GEW8A
IT	90.310217.6	419222	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446ITA8A
JP	246936/90		Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446JAP1A

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EP	90.310217.6	419222	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446UNK8A
US	07/995,543	5,706,208	Method For The Prediction Of Properties Of Biological Matter By Analysis Of The Near-Infrared Spectrum Thereof	David W. Osten	44446USA6B
CA	2025330		Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447CAN7A
DK	90.310219.2	419223	Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447DEN8A
FR	90.310219.2	419223	Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447FRA3A
DE	90.310219.2	419223	Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447GEW6A
IT	90.310219.2	419223	Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447ITA6A

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JP	246937/90		Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447JAP8A
MX	22276	183929	Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447MEX9A
NL	90.310219.2	419223	Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447NET2A
ES	90.310219.2	419223	Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447SPA4A
SE	90.310219.2	419223	Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447SWE6A
GB	90.310219.2	419223	Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447UNK6A
US	08/476,129	5,830,133	Characterizing Biological Matter Using Near-Infrared Spectroscopy Spectrum	David W. Osten	44447USA1D
US	07/995,951	5,729,333	Characterizing Biological Matter In A Dynamic Condition Using Near Infrared Spectroscopy	David W. Osten	44447USA2C

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
AT	94.106593.0	613651	Intravascular Blood Gas Sensing System	John L. Gehrich	44073AUT6F
AT	92.118809.0	536808	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073AUT8E
BE	94.106593.0		Intravascular Blood Gas Sensing System	John. L. Gehrich	44073BEG6C
EP	91.121782.6	479341	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073EPO1D
FR	94.106593.0		Intravascular Blood Gas Sensing System	John L. Gehrich	44073FRA6F
FR	92.118809.0	536808	Intravascular Blood Parameter Measurement System	Thomas P. Maxwell	44073FRA8E
DE	94.106593.0		Intravascular Blood Gas Sensing System	John L. Gehrich	44073GEW9F
IT	94.106593.0		Intravascular Blood Gas Sensing System	John. L. Gehrich	44073ITA5C
NL	94.106593.0		Intravascular Blood Gas Sensing System	John. L. Gehrich	44073NET1C
SE	94.106593.0		Intravascular Blood Gas Sensing System	John. L. Gehrich	44073SWE5C
GB	94.106593.0		Intravascular Blood Gas Sensing System	John L. Gehrich	44073UNK9F
EP	93.103925.9	560353	Calibration System And Housing	Roxanne E. Wall	44941EPO4B
IT	91.105835.2	453901	System And Method For Predicting The Value Of A Compositional Parameter Of Blood	James K. Tusa	45432ITA6A

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
JP	229831/92		Method And Apparatus For Detecting The Presence Of Carbon Dioxide Gas In A Sample	Romano Morlotti	47543JAP1A
JP	115854/93		Catheter And Probe-Catheter Assembly	William Bedingham	47738JAP8A
JP	170949/92		Invasive Fiber Optic Blood Pressure Transducer	Shunsuke Takaki	48372JAP3A
EP	93.110258.6	577038	Intravascular Blood Parameter Sensing System	William Bedingham	48779EPO7A
CA	2210921		Process for Modifying Surfaces	Larry M. Sirvio	51435CAN3A
US	08/806,368		Cassette For Tonometric Calibration	Thomas G. Hacker	53213USA1A
FR	93103925.9	560353	Sterile Loop Calibration System	Thomas P. Maxwell	44941FRA3B

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
US	07/148,153	4,849,172	Optical Sensor	Masao Yafuso	44070USA9D
US	07/302,832	4,867,919	Method Of Making A Gas Sensor	Masao Yafuso	44071USA1B
US	90/003,660	B1 4,824,789	Gas Sensor	Masao Yafuso	44071USA9C
FR	87.308884.3	263693	Micro Sensor	Masao Yafuso	44072FRA8A
DE	87.308884.3	263693	Micro Sensor	Masao Yafuso	44072GEW1A
DE	89.304264.8	340018	Composition, Apparatus And Method For Sensing Ionic Components	Masao Yafuso	44072GEW9B
JP	111935/89	2655545	Composition, Apparatus And Method For Sensing Ionic Components	Masao Yafuso	44072JAP3A
GB	87.308884.3	263693	Micro Sensor	Masao Yafuso	44072UNK1A
GB	89.304264.8	340018	Composition, Apparatus And Method For Sensing Ionic Components	Masao Yafuso	44072UNK9B
US	06/917,913	4,798,738	Micro Sensor	Masao Yafuso	44072USA1A
US	07/188,414	4,999,306	Composition, Apparatus And Method For Sensing Ionic Components	Masao Yafuso	44072USA9B
US	07/492,550	5,075,127	Sensor With Overcoating And Process For Making Same	Masao Yafuso	44074USA5B
DE	91.105015.1	450519	Ionic Component Sensor And Method For Making And Using Same	Masao Yafuso	45266GEW9A
JP	70108/91		Ionic Component Sensor And Method For Making And Using Same	Masao Yafuso	45266JAP1A
US	07/503,838	5,081,041	Ionic Component Sensor And Method For Making And Using Same	Masao Yafuso	45266USA9A
DE	91.104251.3	448052	Gas Sensing Element And Method For Making And Using Same	Masao Yafuso	45274GEW2A
JP	54727/91		Gas Sensing Element And Method For Making And Using Same	Masao Yafuso	45274JAP4A
US	07/949,771	5,284,775	Gas Sensing Element And Method For Making Same	Masao Yafuso	45274USA1B
US	07/496,560	5,175,016	Method Of Making Gas Sensing Element	Masao Yafuso	45274USA2A
US	07/496,561	5,081,042	Ionic Component Sensor And Method For Making And Using Same	Masao Yafuso	45275USA1A
AU	26363/92	662925	Sensors And Methods For Sensing	Colleen C. Nagel	47552AUS8A
CA	2079987		Sensors And Methods For Sensing	Colleen C. Nagel	47552CAN1A
FR	92.118462.8	539967	Sensors And Methods For Sensing	Colleen C. Nagel	47552FRA7A

Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
DE	92.118462.8	539967	Sensors And Methods For Sensing	Colleen C. Nagel	47552GEW1A
IT	92.118462.8	539967	Sensors And Methods For Sensing	Colleen C. Nagel	47552ITA1A
JP	294193/92		Sensors And Methods For Sensing	Colleen C. Nagel	47552JAP2A
GB	92.118462.8	539967	Sensors And Methods For Sensing	Colleen C. Nagel	47552UNK1A
US	08/373,855	5,498,549	Sensors And Methods For Sensing	Colleen C. Nagel	47552USA6C
US	08/137,289	5,409,666	Sensors And Methods For Sensing	Colleen C. Nagel	47552USA8B
CA	2176006		Sensor With Improved Drift Stability	James G. Bentsen	50414CAN8A
EP	95.900406.0		Sensor With Improved Drift Stability	James G. Bentsen	50414EPO5A
JP	515596/95		Sensor With Improved Drift Stability	James G. Bentsen	50414JAP9A
US	08/800,435		Method Of Making A Sensor With Improved Drift Stability	James G. Bentsen	50414USA3C
US	08/375,304	5,607,645	Sensor With Improved Drift Stability	James G. Bentsen	50414USA5B
US	08/160,687	5,403,746	Sensor With Improved Drift Stability	James G. Bentsen	50414USA7A
EP	95.940670.3	796291	Permeable Polymer Compositions And Blood Gas Sensor Overcoats	Daniel C. Duan	50671EPO1A
JP	517593/96		Permeable Polymer Compositions And Blood Gas Sensor Overcoats	Daniel C. Duan	50671JAP5A
US	08/351,771	5,670,097	Method Of Making Blood Gas Sensor Overcoats Using Permeable Polymeric Compositions	Daniel C. Duan	50671USA3A
EP	98.931560.1		Removal Of Biologically Active Agents	David F. Wirt	51005EPO1A
WO	US98/13145		Removal Of Biologically Active Agents	David F. Wirt	51005PCT1A
US	08/886,721		Removal Of Biologically Active Agents	David F. Wirt	51005USA3A
EP	95.933203.2	789839	Ionic Sensor And A Method For Producing Same	John L. Dektar	51213EPO1A
EP	99.103985.0		Ionic Sensor And A Method For Producing Same	John L. Dektar	51213EPO8B
JP	509731/96		Ionic Sensor And A Method For Producing Same	John L. Dektar	51213JAP4A
US	08/332,244	5,591,400	Ionic Sensor And A Method For Producing Same	John L. Dektar	51213USA2A
EP	96.936493.4		Novel Emulsion For Robust Sensing	Kathryn R. Bretscher	51320EPO3A
JP	519708/97		Novel Emulsion For Robust Sensing	Kathryn R. Bretscher	51320JAP7A
US	08/943,824		Novel Emulsion For Robust Sensing	Kathryn R. Bretscher	51320USA3B
US	08/562,036	5,714,122	Novel Emulsion For Robust Sensing	Kathryn R. Bretscher	51320USA5A
EP	96.902662.4	807,141	Process for Modifying Surfaces	Larry M. Sirvio	51435EPO1A

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JP	523552/96	8-523552	Process for Modifying Surfaces	Larry M. Sirvio	51435JAP4A
US	08/381,754	5,532,311	Process for Modifying Surfaces	Larry M. Sirvio	51435USA2A

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Country	Application or Serial No.	Patent or Publication No.	Title	First Inventor	File No.
EP	89.304264.8	340018	Composition, Apparatus And Method For Sensing Ionic Components	Masao Yafuso	44072EPO7B
EP	92.118462.8	539967	Sensors And Methods For Sensing	Colleen C. Nagel	47552EPO8A
DE	96.902662.4	807,141	Process for Modifying Surfaces	Larry M. Sirvio	51435GEW2A